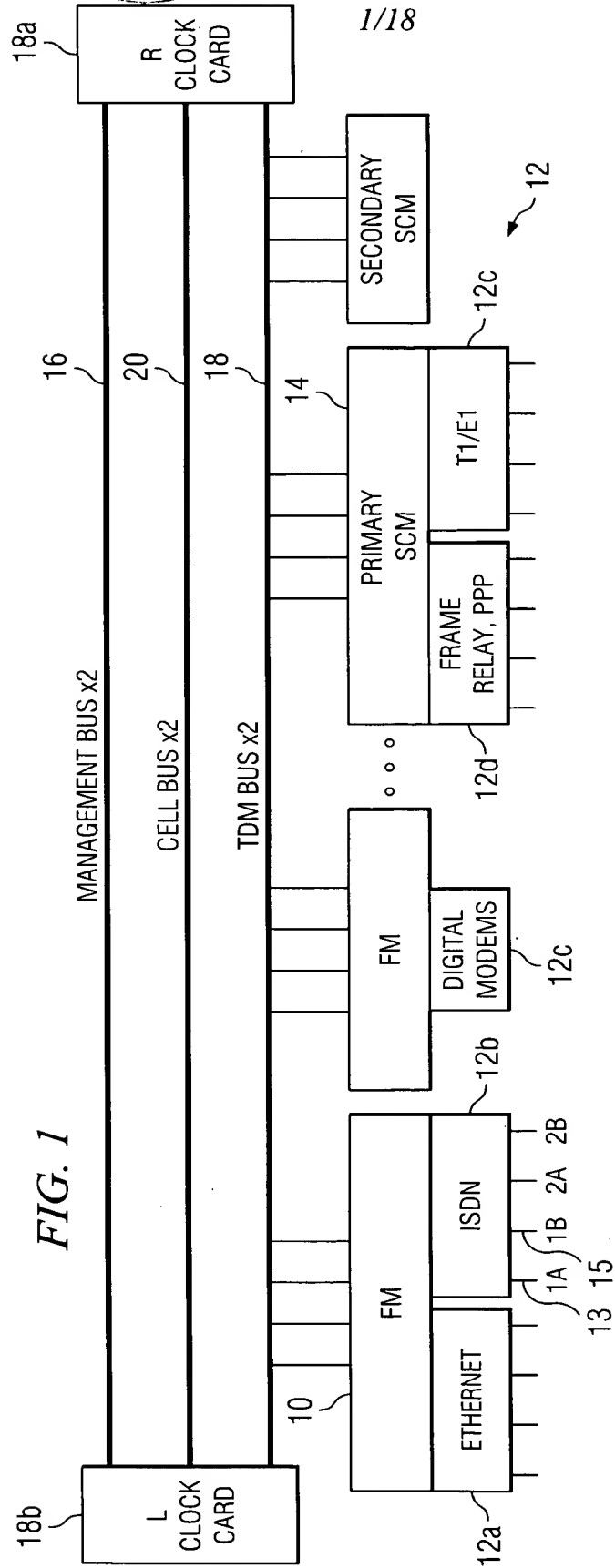
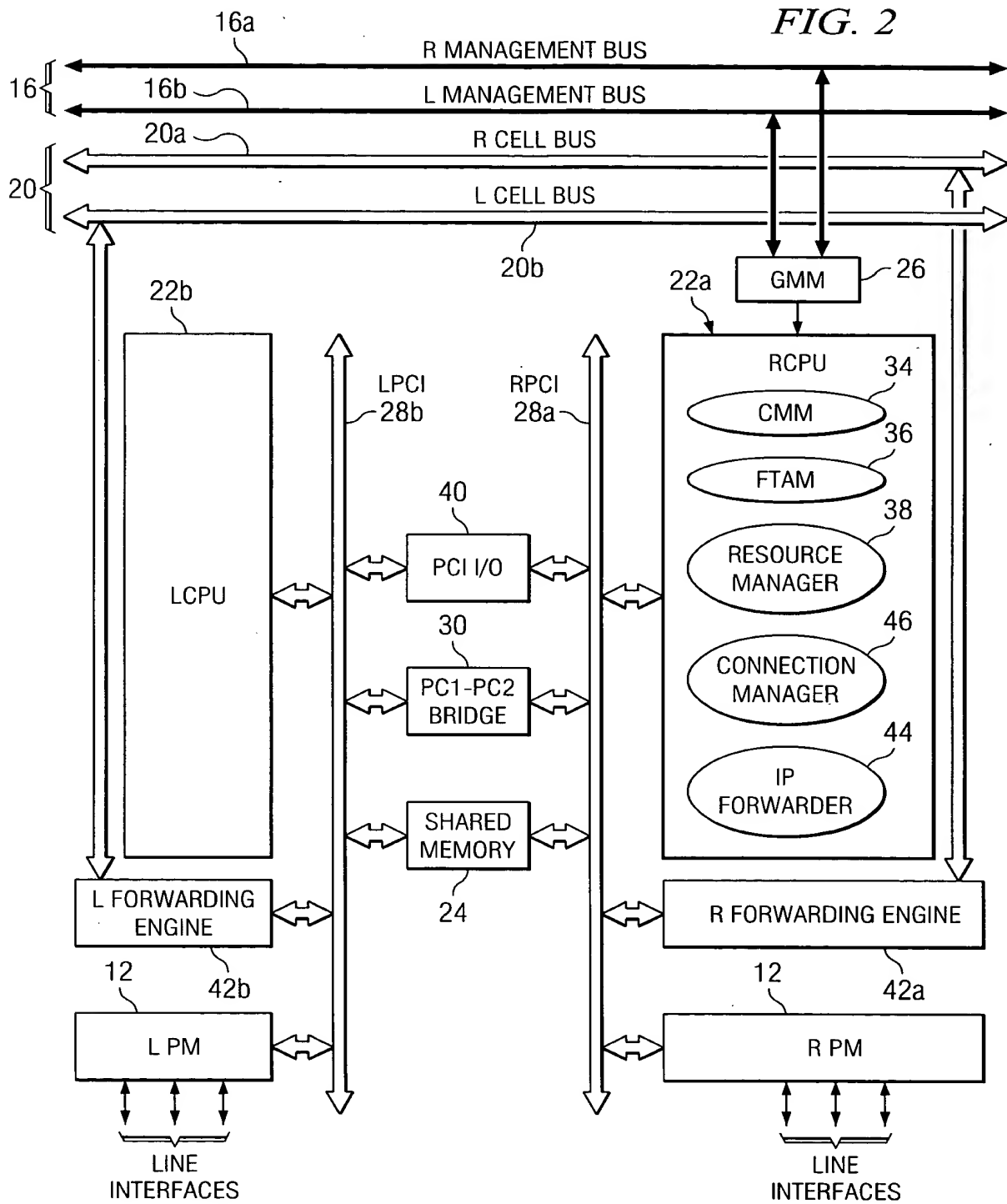
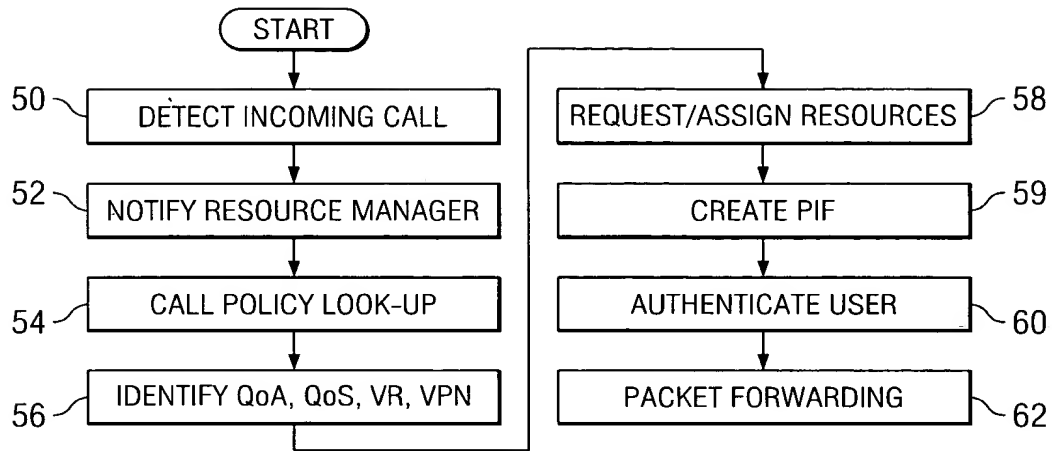
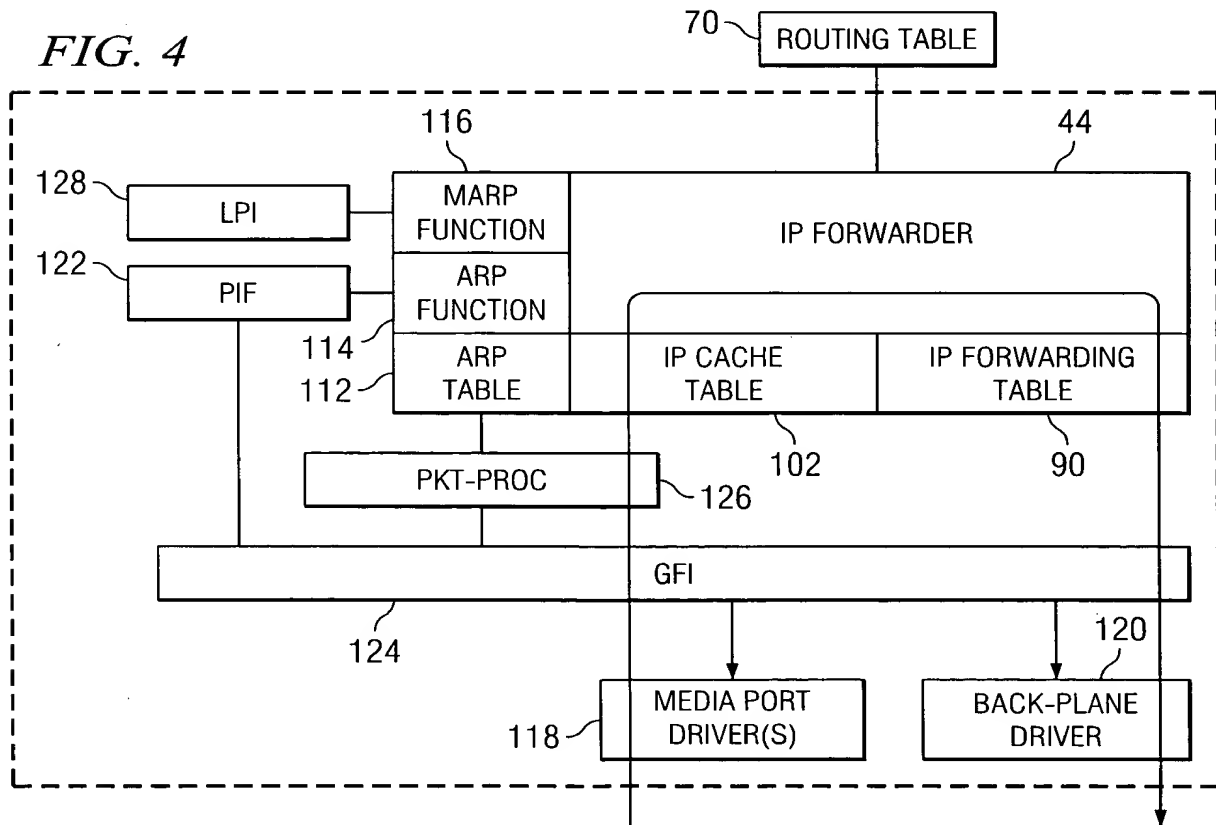


FIG. 1





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FIG. 3*FIG. 4*

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IP ROUTE TABLE: TOTAL ROUTES: 32				
72	74	76	78	80
DESTINATION	SUBNET MASK	NextHop	OWNER	COST
0.0.0.0	0.0.0.0	206.169.142.9	STATIC	1
0.0.0.0	0.0.0.0	206.169.114.17	STATIC	2
0.0.0.0	0.0.0.0	10.1.205.18	OSPFE	11
10.180.180.0	255.255.255.248	10.1.205.18	OSPFE	11
10.3.1.16	255.255.255.240	10.1.130.2	OSPFE	20:2
10.2.215.64	255.255.255.240	10.1.130.1	OSPF1	20
10.3.215.64	255.255.255.240	10.1.130.2	OSPF1	20
10.2.215.0	255.255.255.192	10.1.130.1	OSPF2	30
10.3.215.0	255.255.255.192	10.1.130.2	OSPF2	30
10.3.215.128	255.255.255.192	10.1.130.2	OSPF2	130
10.1.54.0	255.255.255.0	DIRECT	DIAL-POOL	1
10.131.71.0	255.255.255.0	10.1.205.18	OSPFE	11
10.1.0.0	255.255.0.0	DIRECT	LOCAL	1
10.181.0.0	255.255.0.0	10.1.205.18	OSPFE	11
10.87.0.0	255.255.0.0	10.1.205.18	OSPFE	11
10.89.0.0	255.255.0.0	10.1.205.18	OSPFE	11
10.91.0.0	255.255.0.0	10.1.205.18	OSPFE	12
10.200.0.0	255.255.0.0	10.1.205.18	OSPFE	20
10.77.0.0	255.255.0.0	10.1.51.200	OSPF1	110
11.22.33.0	255.255.255.0	10.1.16.16	OSPF1	110
206.169.114.16	255.255.255.252	DIRECT	LOCAL	1
206.169.114.152	255.255.255.248	DIRECT	DIAL-POOL	1
206.169.114.136	255.255.255.248	DIRECT	DIAL-POOL	1
PRESS ENTER TO CONTINUE, ANY OTHER KEY FOLLOWED BY ENTER TO ABORT:				

FIG. 5

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PRI-SCM: 1.1 >= 2:netman:ip# view ipf
 IP FORWARDING TABLE:
 TOTAL IPF TABLE ENTRIES: 12

92 DESTINATION	94 SUBNET MASK	96 NextHop	98 TYPE	100 FLAGS(*)
10.3.238.1	255.255.255.255.255		SPORT	SD(R)
10.1.6.36	255.255.255.255.255		SPORT	M
10.1.6.35	255.255.255.255.255		SPORT	M
10.1.6.34	255.255.255.255.255		SPORT	M
10.1.6.33	255.255.255.255.255		SPORT	M
10.1.6.32	255.255.255.255.255		SPORT	M
10.1.6.31	255.255.255.255.255		SPORT	M
10.2.238.1	255.255.255.255.255		SPORT	SD(L)
10.1.6.30	255.255.255.255.255		SPORT	SD(L)
10.3.0.0	255.255.0.0		SPORT	PD(R)
10.2.0.0	255.255.0.0		SPORT	PD(L)
10.1.0.0	255.255.0.0		SPORT	PD(L)
0.0.0.0	0.0.0.0	206.169.142.9	SPORT	R

(*) D: DIRECT (AND L=LOCAL CARD ONLY, R=REMOTE CARD ONLY),
 S: SYSTEM I/F, R: REMOTE, P: SUPERNET, F: DEFAULT AND M: MGMT

ACTUAL IPF TABLE ENTRIES: 12

FIG. 6

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TOTAL IP CACHE ENTRIES: 3

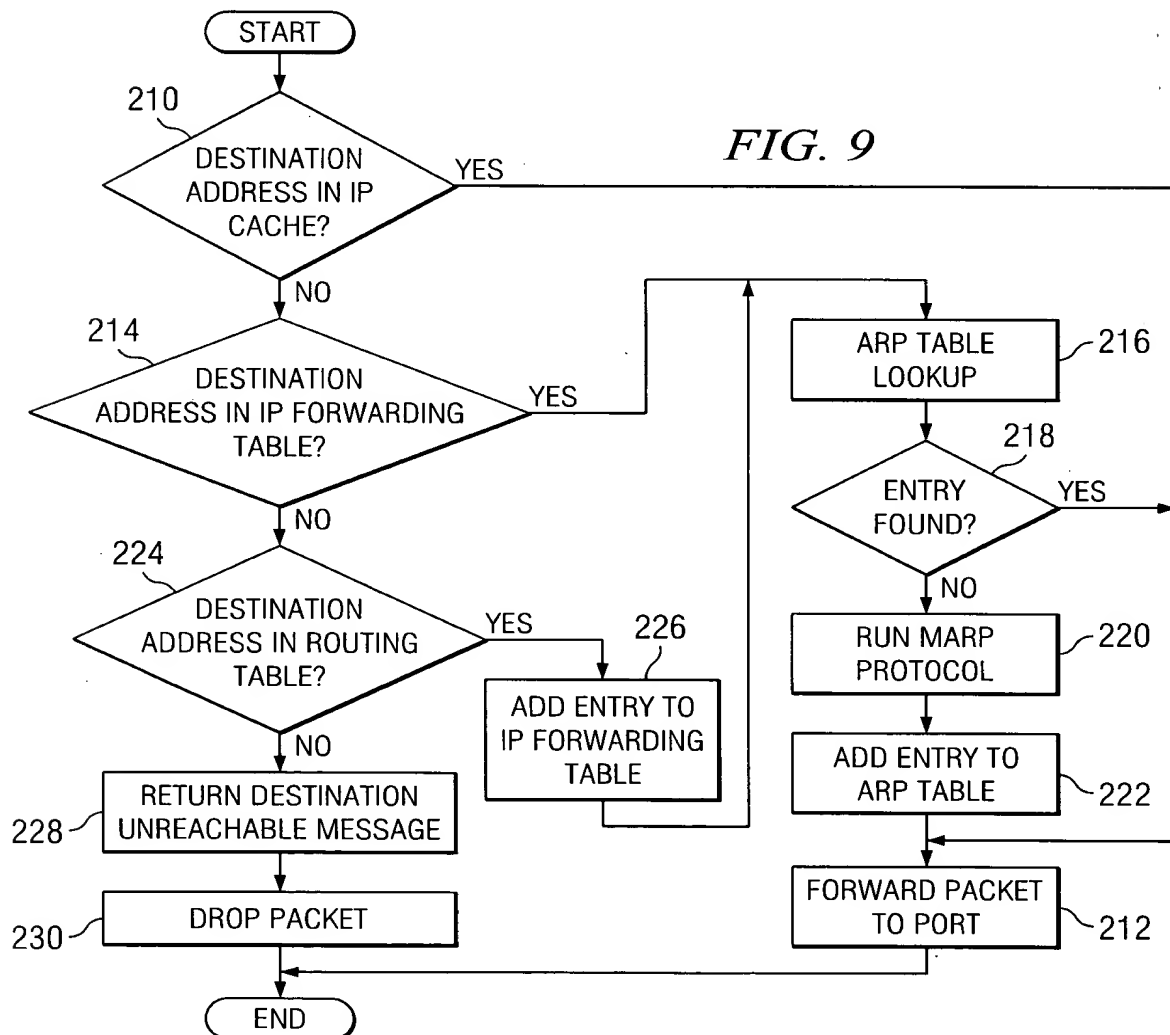
104 DESTINATION	106 SOURCE	108 OUT PORT	110 HEADER
207.200.77.45	206.169.114.138	Fr.1.5.2.3.1	08001000cea97211
206.169.114.	142.10.1.1.25	Mo.1.3.1.1.29	0800201dcea9728e
198.41.0.5	206.169.114.138	Fr.1.5.2.3.1	08000000cea97211

FIG. 7

FIG. 8

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IP ARP TABLE:			
200	202	204	206
IP ADDRESS	MAC ADDRESS	PHYSICAL PORT	TYPE(*)
10.1.1.101	00-ff-4a-3d-2f-1a	En.1.3.1.1.1.	S
10.1.5.100	00-ff-ff-01-ff-20	En.1.3.2.1.1.	D
150.140.140.30	08-00-09-ff-65-ff	En.1.3.1.1.14	LB
147.128.128.60	08-00-09-ff-38-38	En.1.3.1.1.10	D
10.1.5.109	00-ff-ff-04-02-ff	En.1.3.2.1.8	S
(*) R: RMT, L: LCL, D: DYN, S: STAT, P: Pt2Pt, T: ROUTE AND B: BCAST			
TOTAL ARP TABLE ENTRIES: 5			



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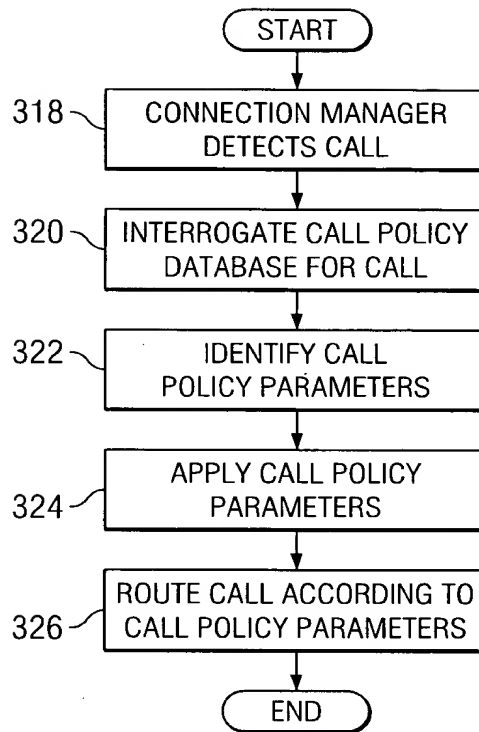
380	
382	384
DOMAIN NAME	NEXT HOP ROUTER
ISP1	206.169.142.9
ISP2	206.169.114.17
⋮	⋮
ISPN	206.169.152.3

FIG. 10

291	SEARCH KEY	CALLED-NUM
292	SOURCE LINK	N/A
293	SOURCE CHANNEL	N/A
294	CALL TYPE:	MODEM
296	SERVICE TYPE:	PPP
298	QUALITY OF ACCESS:	1
300	QUALITY OF SERVICE:	1
302	VR ID:	1
304	VPN ID:	111
306	AUTH. SOURCE:	RADIUS
308	PRY DNS ADDR:	206.169.25.3
310	SCRY DNS ADDR:	206.169.25.100
312	PRY RADIUS SRVR:	10.1.125.26
314	SCRY RADIUS SRVR:	10.1.6.15
316	PHONE NUMBER	555-5555
311	DOMAIN ID	001

FIG. 11

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*FIG. 12*

328 QoA LEVEL	330 ACCESS THRESHOLD
332 1	100%
2	75%
3	50%
4	25%

FIG. 13

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FIG. 14

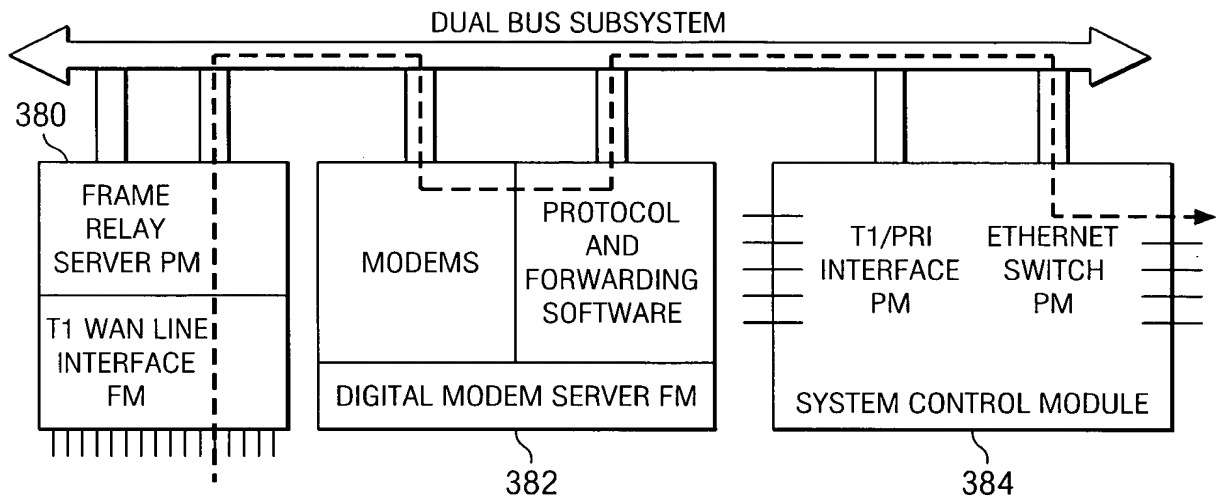
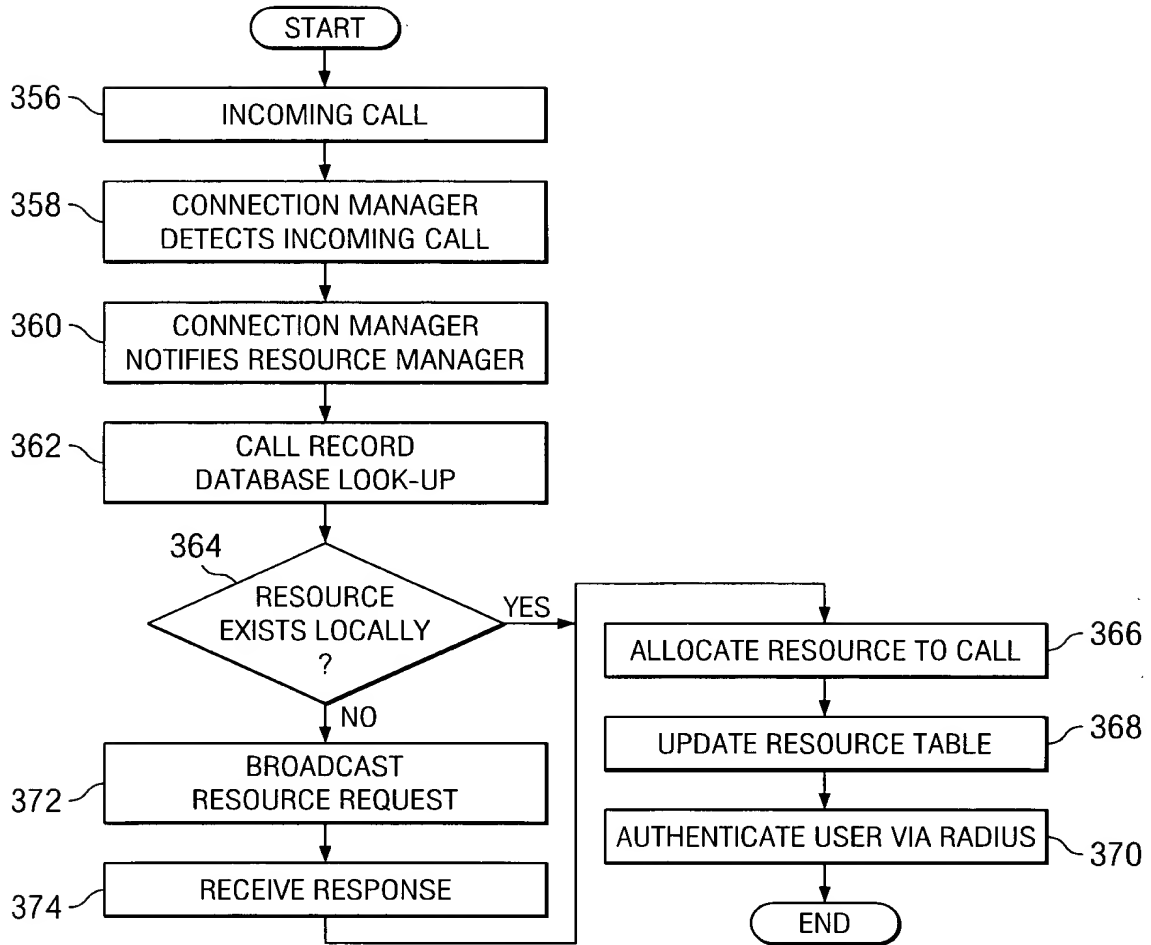
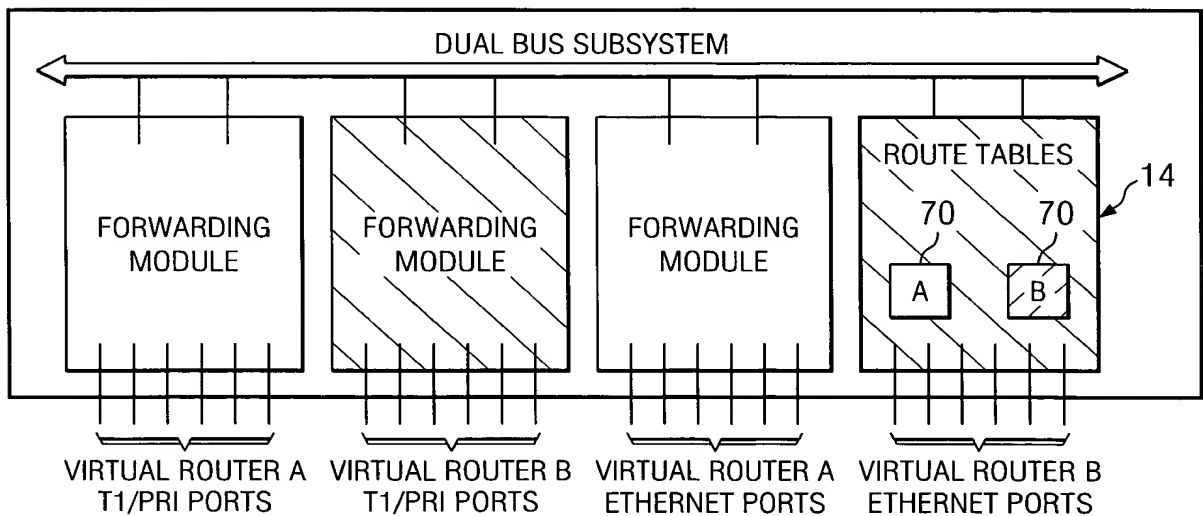


FIG. 15

334

MODEM RESOURCES					
336	~	VR ID			=111
338	~	MAX LOCAL RESOURCES			=32
340	~	MAX GLOBAL RESOURCES			=32
342	~	CURRENT LOCAL RESOURCES			=29
344	~	CURRENT GLOBAL RESOURCES			=29
346		348	350	352	354
QOA	LOCAL QOA	GLOBAL QOA	ACCEPT LOCAL	ACCEPT GLOBAL	
1	0	0	YES	YES	
2	8	8	YES	YES	
3	16	16	YES	YES	
4	24	24	YES	YES	

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FIG. 16**FIG. 17**

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IP VPN SESSIONS:

242 ID	244 VPN-ID	246 SOURCE-ADDR	248 SOURCE-MASK	250 DEST-ADDR	252 DEST-MASK
1	111	ANY	ANY	10.1.0.0	255.255.0.0
2	ANY	10.1.0.0	255.255.0.0	208.227.214.0	255.255.255.0
3	ANY	10.1.0.0	255.255.0.0	10.1.0.0	255.255.0.0
4	ANY	10.1.0.0	255.255.0.0	206.169.114.128	225.255.255.192
5	ANY	ANY	ANY	10.1.0.0	255.255.0.0
6	ANY	10.1.0.0	255.255.0.0	ANY	ANY
7	ANY	ANY	ANY	ANY	ANY

FIG. 18

254

PRI-SCM: 1.2> =14:netman:ip#

IP VPN RULES:

256 ID	258 PRI	260 ACTION	262 IP-PROTO	264 APP-PROTO	266 SessCnt	268 PKT COUNT
1	1	FWD	TCP	FTP	5	3939981
2	1	DROP	ALL	—	2	3

PRI-SCM: 1.2> =14:netman:ip#

FIG. 19

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PRI-SCM:1.1 >= 3:netman:ip# view ppn-filter
IP VPN LIST OF RULES ATTACHED TO SESSIONS:

272 SessID	274 RULE LIST (IN ORDER OF PRIORITY)
1	1
2	1
3	1
4	1
5	2
6	2
7	1

PRI-SCM:1.1 >= 4:netman:ip#

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FIG. 20

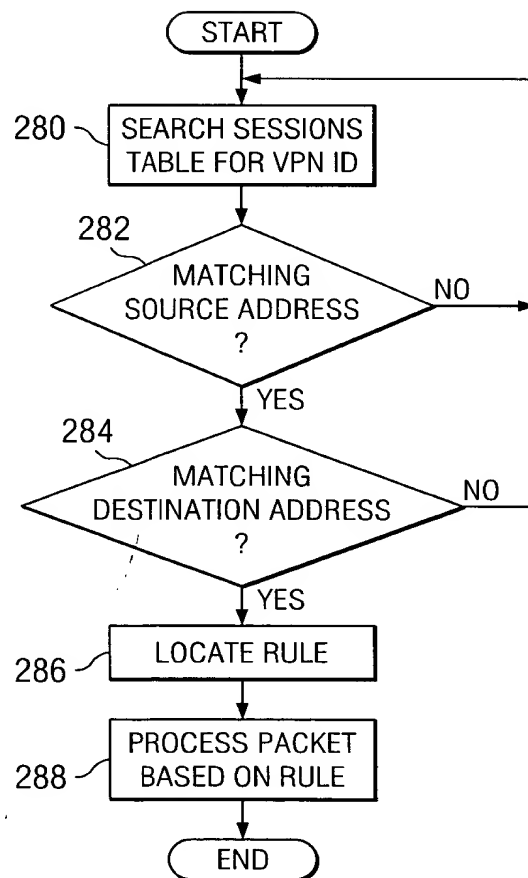
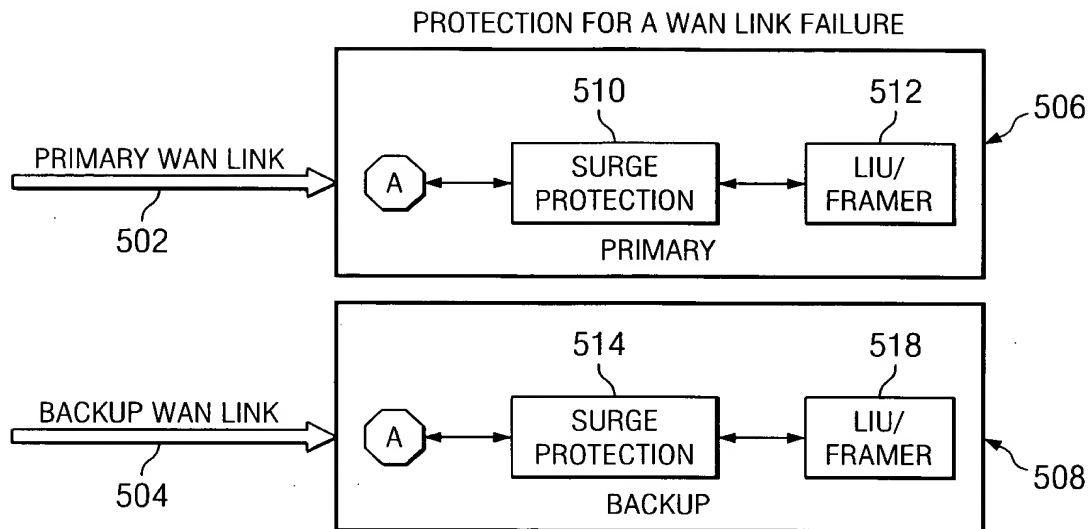
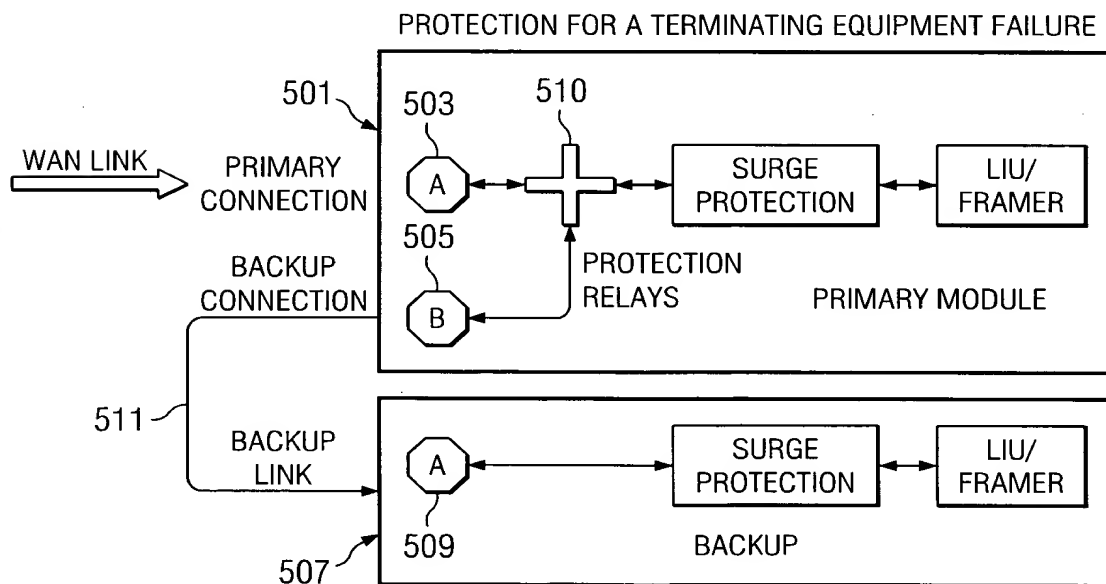


FIG. 21

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*FIG. 22**FIG. 23*

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FIG. 24

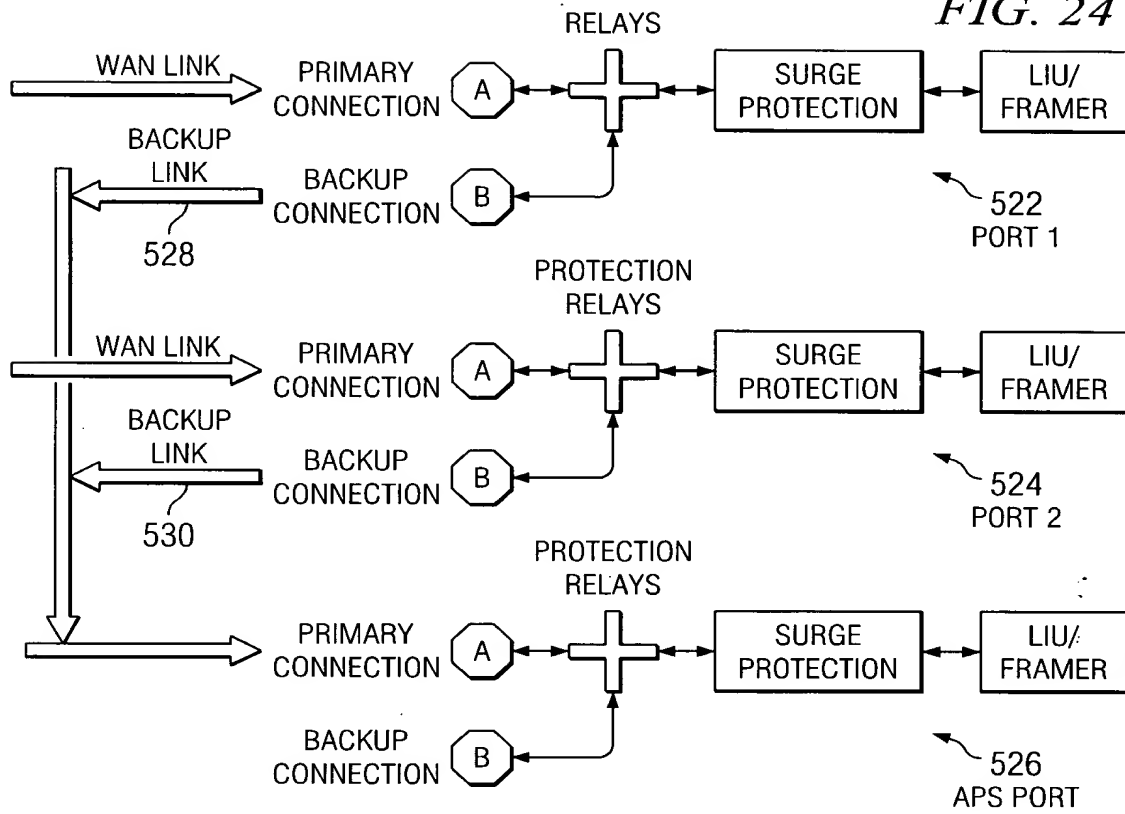
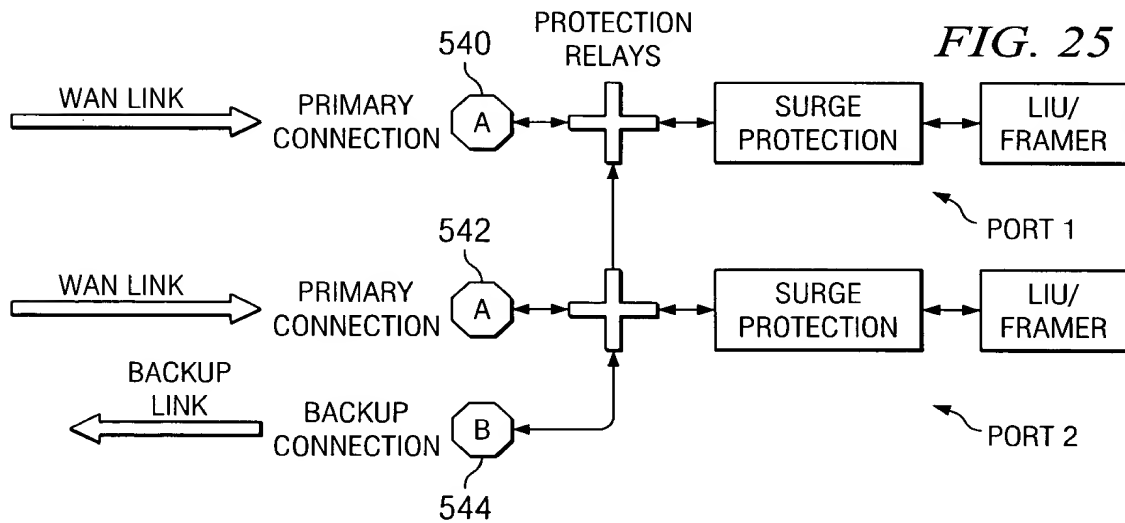


FIG. 25



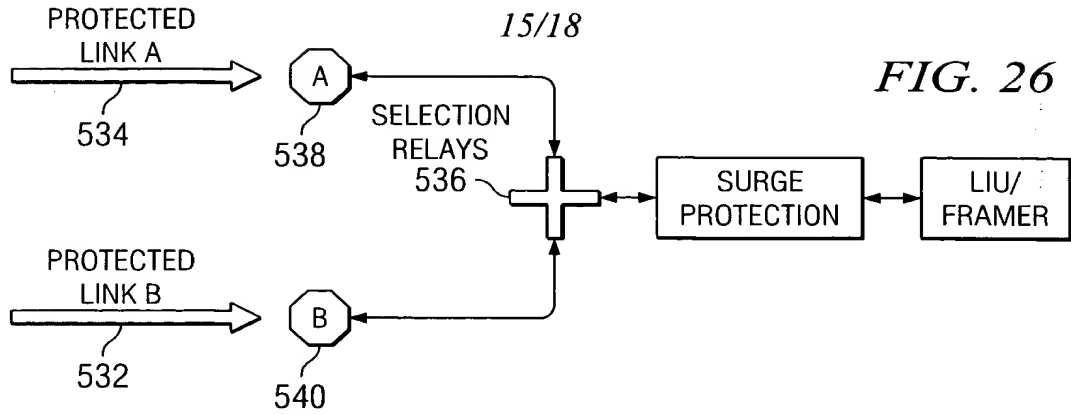


FIG. 27

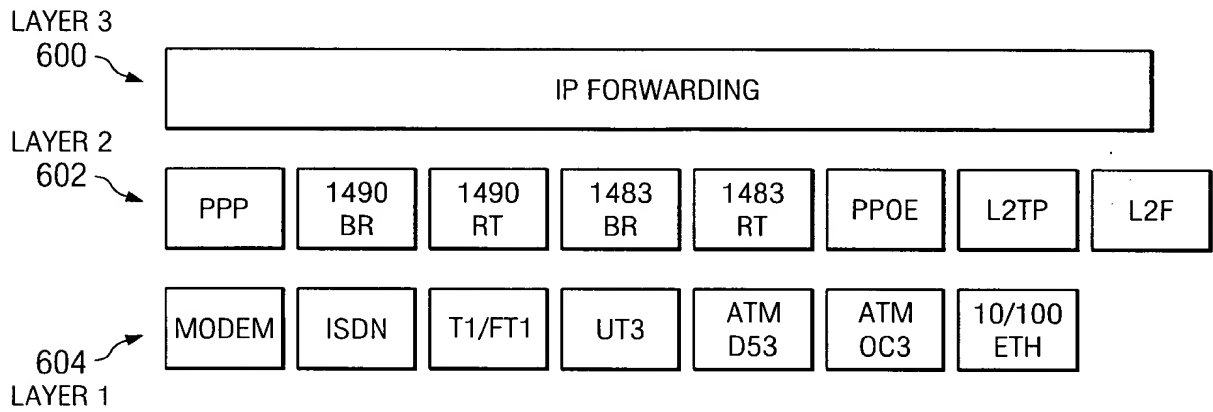
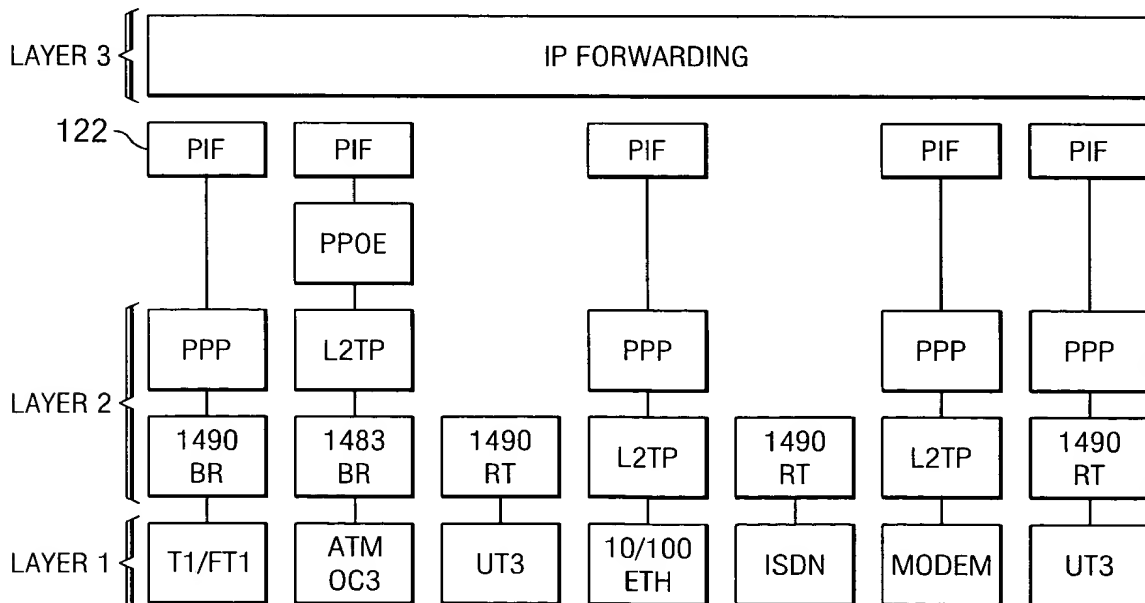
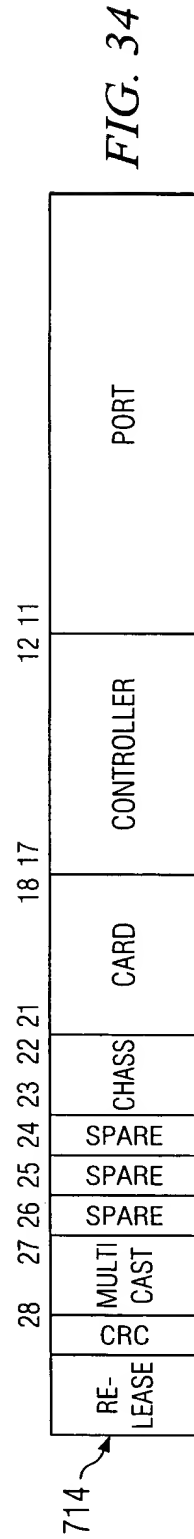
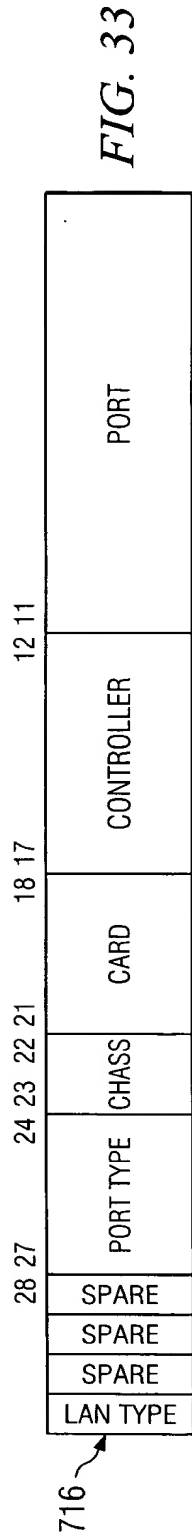
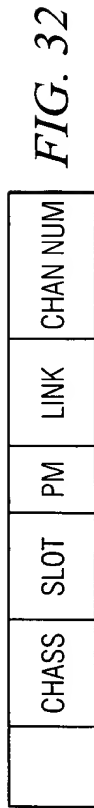
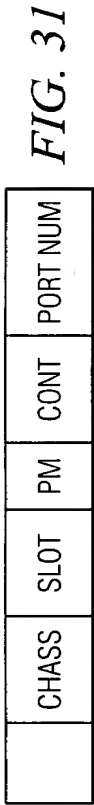
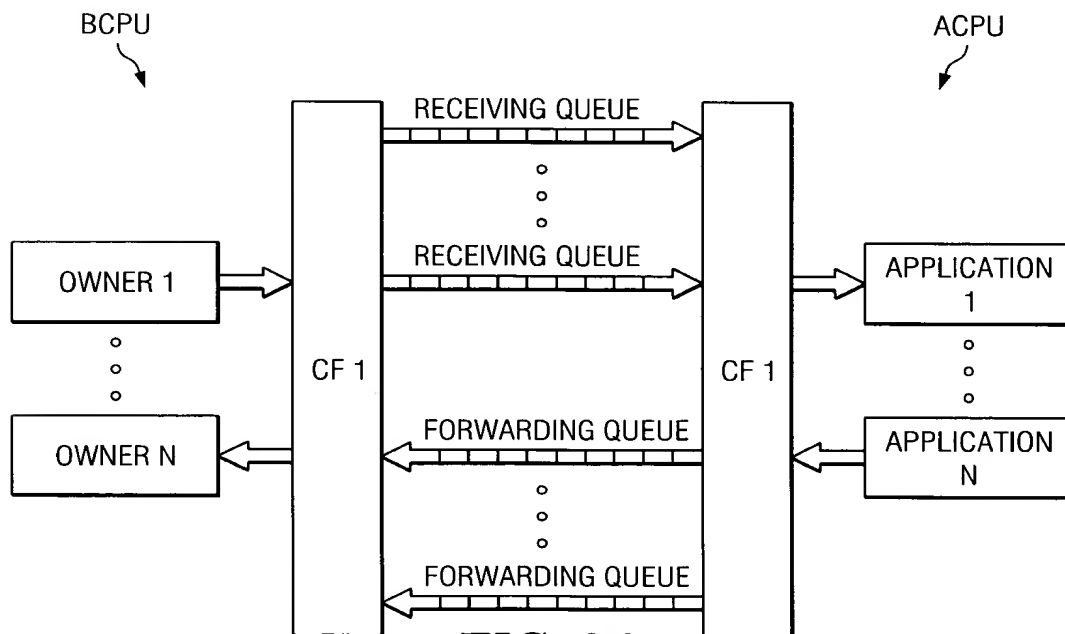


FIG. 28





PORT ADDR RANGE	TYPE	CHASS	CARD	CONTROL
0-19	WELL KNOWN INTERNAL MULTICAST ADDRESS	NA	NA	0
20-30	WELL KNOWN NAME MULTICAST ADDRESS	NA	CARD NUM	0
40-79	WELL KNOWN EXTERNAL MULTICAST ADDRESS	NA	NA	0
80-511	DYNAMIC EXTERNAL MULTICAST ADDRESS	NA	NA	0
512-2048	RENAME PORT ADDRESS	CHASS NUM	CARD NUM	0

FIG. 35*FIG. 36*